

What is claimed is:

1 1. A tabletop-type air cleaner comprising:
2 a front opening portion to suck air containing smoke of a
3 cigarette, said front opening portion being placed at a front of
4 the air cleaner;

5 a blower to forcedly feed said air having been sucked from
6 said front opening portion in a centrifugal direction;

7 a pair of right and left peripheral opening portions to emit
8 air fed forcedly from said blower ahead of the air cleaner, said
9 pair of peripheral opening portions being placed in a fringe
10 portion on the right and the left at said front of the air cleaner;
11 and

12 a porous or fibrous dust collecting filter being placed
13 between said front opening portion and said blower and/or between
14 said blower and each of the peripheral opening portions making
15 up said pair of right and left peripheral opening portions to
16 remove the smoke of the cigarette.

1 2. The tabletop-type air cleaner according to Claim 1, wherein
2 deodorizing filters each being placed between said front opening
3 portion and said blower and/or between said blower and each of
4 said peripheral opening portions making up said pair of right and
5 left peripheral opening portions are/is mounted.

1 3. The tabletop-type air cleaner according to Claim 1, wherein
2 said blower is a centrifugal-type blower having a blade wheel in
3 which a plurality of blades is arranged in a ring-like form and
4 being mounted in a manner that a central axis of said blade wheel

5 approximately conforms to a central axis of said front opening
6 portion, in which said blower, while being operated, captures air
7 from a direction of said central axis of said blade wheel, provides
8 the captured air with turn-around flows, and forcedly feeds, by
9 using generated centrifugal force, air that turns around, from
10 clearances among said blades toward a direction of a portion
11 surrounding said blade wheel.

1 4. The tabletop-type air cleaner according to Claim 1, wherein,
2 between said front opening portion and said blower is placed a
3 panel-shaped dust collecting filter which is operated in a form
4 of a panel being folded up in a corrugated form.

1 5. The tabletop-type air cleaner according to Claim 1, wherein
2 a ring-shaped dust collecting filter is placed between said blower
3 and each of said peripheral opening portions making up said pair
4 of right and left peripheral opening portions and on a side of
5 said portions surrounding said blade wheel in such a manner that
6 a central axis of said dust collecting filter conforms to said
7 central axis of said blade wheel.

1 6. The tabletop-type air cleaner according to Claim 2, wherein
2 a ring-shaped deodorizing filter is placed between said blower
3 and each of said peripheral opening portions making up said pair
4 of right and left peripheral opening portions and on said side
5 of said portions surrounding said blade wheel in such a manner
6 that a central axis of said deodorizing filter conforms to said
7 central axis of said blade wheel.

1 7. The tabletop-type air cleaner according to Claim 1, wherein
2 the air fed forcedly from said blower is emitted toward an
3 obliquely-forward direction of the air cleaner from said pair of
4 right and left peripheral opening portions in a manner that said
5 air is separated right and left.

1 8. The tabletop-type air cleaner according to Claim 7, wherein
2 each of said peripheral opening portions making up said pair of
3 right and left peripheral opening portions is placed at a corner
4 between a front and a side of the air cleaner.

1 9. The tabletop-type air cleaner according to Claim 7, wherein
2 each of said peripheral opening portions is formed so as to be
3 approximately longitudinally long along a fringe of a front of
4 the air cleaner.

1 10. The tabletop-type air cleaner according to Claim 1, wherein
2 said pair of right and left peripheral opening portions is
3 arranged 25 cm or more and within 40 cm apart from each other in
4 a horizontal direction.

1 11. The tabletop-type air cleaner according to Claim 1, wherein
2 each of said peripheral opening portions has a plurality of
3 partitioning plates or blade plates which give a directional
4 property to the air being emitted.

1 12. The tabletop-type air cleaner according to Claim 11,
2 wherein said partitioning walls or said blade plates are attached
3 so as to be rotatable so that a direction of the air being emitted

4 is changed.

1 13. The tabletop-type air cleaner according to Claim 12,
2 wherein an air-flow direction control circuit is mounted which
3 is used to electrically control rotation of said partitioning
4 plates or said wheel plates.

1 14. The tabletop-type air cleaner according to Claim 1, wherein
2 an electrically-controlled dust collecting unit is mounted which
3 is used to electrostatically collect dust by corona charging fine
4 particles floating in the air.